

TX-125RF VHF Band alignment procedure

First programming frequency to “160.000MHz”, modulation mode ”WB”.

I.VCO SECTION

a.VCO voltage.

- 1.Let transmitter in “TX” mode.
- 2.heck “VCO” point adjust R51 for 2.6V +/- 0.05V
- 3.Let transmitter in “RX” mode.
- 4.Check “VCO” point adjust R33 for 2.4V +/- 0.05V

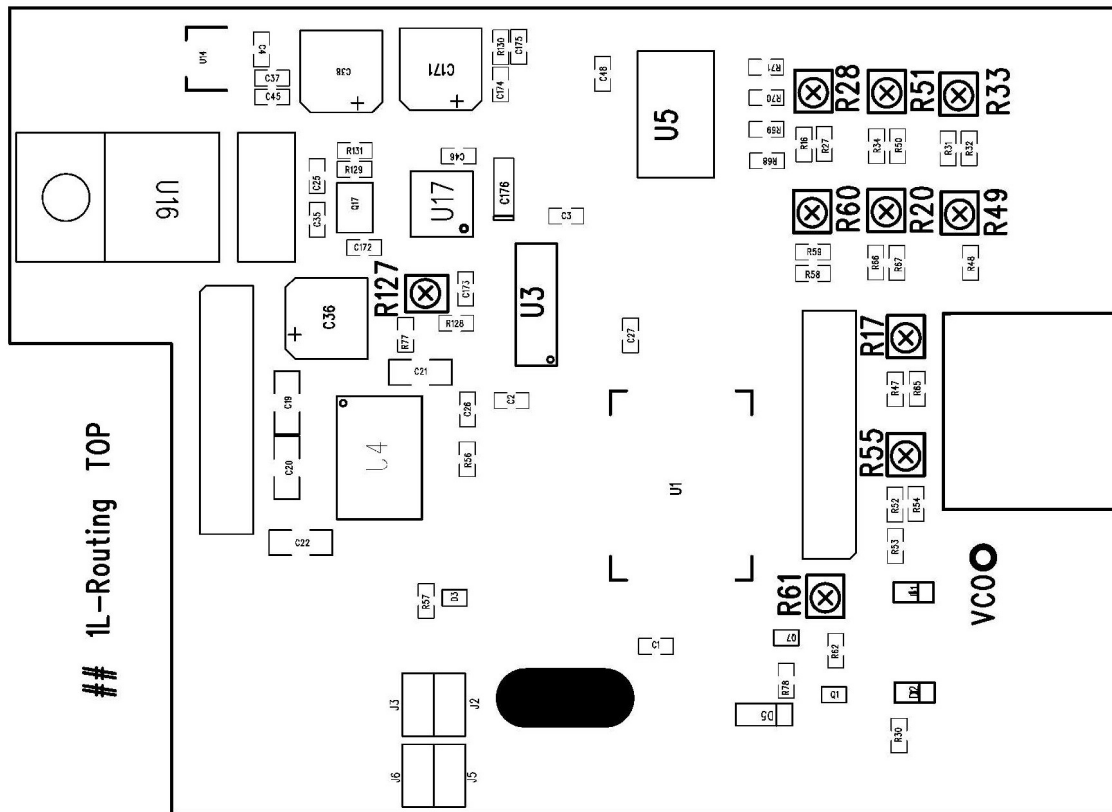
II.FREQUENCY SYNTHESIZER & MODULATOR SECTION

a.TX frequency

- 1.Let transmitter in “TX” mode.
- 2.Adjust R28 for TX CF=160.000MHz +/- 200Hz.

b.TX FM deviation

- 1.Let transmitter in “TX” mode.
- 2.Adjust R17 for TX FM deviation 4.0kHz.
- 3.Adjust R55 to make modulation waveform like square wave.
- 4.Programmig modulation mode to “NB”.
- 5.Adjust R49 for TX FM deviation 2.0kHz.



c.TX output power

- 1.Programmig transmitter in Hi power mode.
- 2.Adjust R60 for output power 5W.

3. Program transmitter in Low power mode.

4. Adjust R61 for output power 1W.

III. RECEIVER SECTION

a. RX audio level

1. Set RF signal generator output -90dBm, FM level 4kHz, FM frequency 1kHz.

2. Let transmitter in "RX" mode.

3. Check audio out port (DB9 connector – pin.9) adjust R127 for 1Vp-p.